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- 1 [Enhancing the security of corporate Wi-Fi networks using DAIR](#)  
 Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Ma  
 Brian Zill  
 June 2006 **MobiSys '06: Proceedings of the 4th international conference** ( and services

**Publisher:** ACM [Request Permissions](#)

Full text available: Pdf (302.26 KB) [Additional Information: full citation, abstract, n](#)

**Bibliometrics:** Downloads (6 Weeks): 95, Downloads (12 Months): 426, Citation

We present a framework for monitoring enterprise wireless networks us  
 framework is called DAIR, which is short for *Dense Array of Inexpensive*  
 the DAIR framework is useful for detecting ...

**Keywords:** 802.11, denial-of-service, rogue AP, security, wireless netw

- 2 [Crossover scaling effects in aggregated TCP traffic with congestion I](#)  
 Michael Liljenstam, Andy T. Ogielski  
 November 2002 **SIGCOMM Computer Communication Review**, Volume 32  
**Publisher:** ACM

Full text available: Pdf (713.53 KB) [Additional Information: full citation, abstract, n](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 20, Citation

We critically examine the claims that TCP congestion control contributes  
 traffic rate correlations. A simulation model is designed to analyze aggre  
 transfers, with network topologies large enough ...

**Keywords:** TCP, self-similarity

- 3 [Fast joins using join indices](#)  
 Zhe Li, Kenneth A. Ross  
 April 1999 **The VLDB Journal — The International Journal on Very La**

**Publisher:** Springer-Verlag New York, Inc.

Full text available: Pdf (263.06 KB) [Additional Information: full citation, abstract, n](#)

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Two new algorithms, "Jive join" and "Slam join," are proposed for comp using a join index. The algorithms are duals: Jive join range-partitions i processes each partition, ...

**Keywords:** Decision support systems, Query processing

#### 4 Order preserving encryption for numeric data

 Rakesh Agrawal, Jerry Kiernan, Ramakrishnan Srikant, Yirong Xu  
June 2004 **SIGMOD '04: Proceedings of the 2004 ACM SIGMOD Internatic Management of data**

**Publisher:** ACM  Request Permissions

Full text available:  Pdf (188.60 KB) Additional Information: full citation, abstract, r


**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 201, Citatic

Encryption is a well established technology for protecting sensitive data data can no longer be easily queried aside from exact matches. We pres encryption scheme for numeric data that allows any comparison ...

#### 5 Analysis of a campus-wide wireless network

David Kotz, Kobby Essien  
January 2005 **Wireless Networks**, Volume 11 Issue 1-2

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (829.94 KB) Additional Information: full citation, abstract, r

**Bibliometrics:** Downloads (6 Weeks): 45, Downloads (12 Months): 238, Citatic

Understanding usage patterns in wireless local-area networks (WLANs) develop, deploy, and manage WLAN technology, as well as those who d software for wireless networks. This paper presents results ...

**Keywords:** 802.11, WLAN, Wi-Fi, wireless network, workload character

#### 6 A Geometric Programming Framework for Optimal Multi-Level Tiling

Lakshminarayanan Renganarayanan, Sanjay Rajopadhye  
November 2004 **SC '04: Proceedings of the 2004 ACM/IEEE conference on S Publisher:** IEEE Computer Society

Full text available:  Pdf (517.47 KB) Additional Information: full citation, abstract, r


**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 31, Citation

Determining the optimal tile size-one that minimizes the execution time compilation and performance tuning of loop kernels. Designing a model a tiled loop nest is an important subproblem. Both ...

#### 7 Robust implicit EDF: A wireless MAC protocol for collaborative real-t

 Tanya L. Crenshaw, Spencer Hoke, Ajay Tirumala, Marco Caccamo  
September 2007 **Transactions on Embedded Computing Systems (TEC**

**Publisher:** ACM  Request Permissions


Full text available:  Pdf (663.47 KB) Additional Information: full citation, abstract, r

**Bibliometrics:** Downloads (6 Weeks): 13, Downloads (12 Months): 112, Citation

Advances in wireless technology have brought us closer to extensive deployment of time embedded systems connected through a wireless channel. The media access layer protocol is critical in providing a real-time guarantee. ...

**Keywords:** Earliest deadline first, medium-access control, real time, wireless

## 8 Probabilistic model for definitional question answering

 Kyoung-Seo Han, Young-In Song, Hae-Chang Rim

August 2006 **SIGIR '06**: Proceedings of the 29th annual international ACM conference on information and development in information retrieval

**Publisher:** ACM 


Full text available:  Pdf (195.21 KB) Additional Information: full citation, abstract, references

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 149, Citation

This paper proposes a probabilistic model for definitional question answering. It captures the characteristics of the definitional question. The intention of the definition is to provide a definition about the question target. Therefore, ...


**Keywords:** definitional question answering, language model, probabilistic

## 9 Phase tracking and prediction

 Timothy Sherwood, Suleyman Sair, Brad Calder

June 2003 **ISCA '03**: Proceedings of the 30th annual international symposium on computer architecture

**Publisher:** ACM

Full text available:  Pdf (674.18 KB) Additional Information: full citation, abstract, references


**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 74, Citation

In a single second a modern processor can execute billions of instructions. Analyzing the behavior of a program at these speeds can be a difficult task when the program is under cycle examination. In many programs, behavior ...

Also published in:

May 2003 **SIGARCH Computer Architecture News** Volume 31 Issue 2

## 10 Conflict analysis in multiprocess synthesis for optimized system integration

 Oliver Bringmann, Wolfgang Rosenstiel, Axel Siebenborn

September 2005 **CODES+ ISSS '05**: Proceedings of the 3rd IEEE/ACM/IFIP conference on hardware/software codesign and system synthesis

**Publisher:** ACM

Full text available:  Pdf (298.68 KB) Additional Information: full citation, abstract, references

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 31, Citation

This paper presents a novel approach for multiprocess synthesis support. It integrates hardware and software synthesis at system level. The goal is to extend the local scope of existing approaches in order to apply global optimization techniques ...

**Keywords:** behavioral synthesis, binding, concurrent systems, scheduling systems-on-chip

# 11 System-level power optimization: techniques and tools

 Luca Benini, Giovanni de Micheli

April 2000 **Transactions on Design Automation of Electronic Systems**

**Publisher:** ACM  Request Permissions

Full text available:  Pdf (385.22 KB) Additional Information: full citation, abstract, n

**Bibliometrics:** Downloads (6 Weeks): 77, Downloads (12 Months): 588, Citation

This tutorial surveys design methods for energy-efficient system-level designs consisting of a hardware platform and software layers. We consider constituents of hardware that consume energy, namely computation, ...

# 12 A geometric approach to improving active packet loss measurement

Joel Sommers, Paul Barford, Nick Duffield, Amos Ron

April 2008 **IEEE/ACM Transactions on Networking (TON)**, Volume 16 Is

**Publisher:** IEEE Press

Full text available:  Pdf (1.05 MB) Additional Information: full citation, abstract, n

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 168, Citation

Measurement and estimation of packet loss characteristics are challenging occurrence and typically short duration of packet loss episodes. While used to measure packet loss on end-to-end paths, ...

**Keywords:** BADABING, active measurement, network congestion, network

# 13 Staged allocation: a compositional technique for specifying and implementing conventions

 Reuben Olinsky, Christian Lindig, Norman Ramsey

January 2006 **POPL '06: Conference record of the 33rd ACM SIGPLAN-SIGPLAN programming languages**

**Publisher:** ACM  Request Permissions

Full text available:  Pdf (179.36 KB) Additional Information: full citation, abstract, n

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 40, Citation


We present *staged allocation*, a technique for specifying calling convention allocators called *stages*. A specification written using staged allocation can and it can be executed directly inside ...

**Keywords:** calling conventions

Also published in:

January 2006 **SIGPLAN Notices** Volume 41 Issue 1



# 14 Weather forecasting: predicting performance for streaming video over

 Mingzhe Li, Feng Li, Mark Claypool, Robert Kinicki



June 2005 **NOSSDAV '05: Proceedings of the international workshop on Network support for digital audio and video**

**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (417.30 KB)[Additional Information: full citation, abstract, &](#)**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 55, Citation


The growth of wireless LANs has brought the expectation for high-bitrate PCs. However, it remains unclear how wireless channel characteristics in video sent over wireless LANs. This paper presents ...

**Keywords:** IEEE 802.11, streaming media, wireless**15** [Adaptive object code compression](#) [John Gilbert, David M. Abrahamson](#)October 2006 **CASES '06:** Proceedings of the 2006 international conference synthesis for embedded systems**Publisher:** ACMFull text available:  Pdf (3.90 MB)[Additional Information: full citation, abstract, &](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 35, Citation

Previous object code compression schemes have employed static and semi algorithms to reduce the size of instruction memory in embedded systems. A number of researchers that adaptive compression techniques are unlike

**Keywords:** code compaction, code compression, code size reduction**16** [Assembly instruction level reverse execution for debugging](#) [Tankut Akgul, Vincent J. Mooney III](#)April 2004 **Transactions on Software Engineering and Methodology****Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (1.18 MB)[Additional Information: full citation, abstract, &](#)**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 85, Citation

Assembly instruction level reverse execution provides a programmer with a program to a previous state in its execution history via execution of a "reverse" program. The ability to execute a program in reverse is advantageous for ...


**Keywords:** Debugging, reverse code generation, reverse execution**17** [An agile development methodology applied to embedded control software hardware constraints](#) [Lucas Cordeiro, Carlos Mar, Eduardo Valentin, Fabiano Cruz, Daniel Patrick Lucena](#)January 2008 **SIGSOFT Software Engineering Notes**, Volume 33 Issue 1**Publisher:** ACMFull text available:  Pdf (499.75 KB)[Additional Information: full citation, abstract, &](#)**Bibliometrics:** Downloads (6 Weeks): 65, Downloads (12 Months): 375, Citation

In recent years, discrete control systems play an important role in the control of many systems. This paper presents a methodology for the design of discrete control systems. The methodology is based on the use of a high-level language to describe the control logic. The methodology is applied to the design of a discrete control system for a robot arm. The results show that the methodology is effective and efficient.

of modern civilization and technology. Practically every aspect of our life control systems. This kind of system maybe classified ...


**Keywords:** agile methodologies, embedded agile development, health platform-based design, real-time software

### 18 Analyzing the browse patterns of mobile clients

 Atul Adya, Paramvir Bahl, Lili Qiu

November 2001 **IMW '01**: Proceedings of the 1st ACM SIGCOMM Workshop

**Publisher:** ACM 

Full text available:  Pdf (1.00 MB)

Additional Information: full citation, abstract, r


**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 54, Citation

We study the dynamics of a large popular commercial Web site designe access it via their cell-phones and PDAs. Unlike most previous Web stuc accesses seen by proxies and servers from clients connected ...

### 19 A polymorphic shellcode detection mechanism in the network

Hsiang-Lun Huang, Tzong-Jye Liu, Kuong-Ho Chen, Chyi-Ren Dow, Lih-Chy June 2007 **InfoScale '07**: Proceedings of the 2nd international conference systems

**Publisher:** ICST (Institute for Computer Sciences, Social-Informatics and Telecomm

Full text available:  Pdf (322.13 KB)


Additional Information: full citation, abstract, r

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 68, Citation

Buffer overflow attack is a major security problem in recent years. The shellcode becomes more and more popular along with development of I method to detect the polymorphic shellcode for Windows ...

**Keywords:** buffer overflow, intrusion detection system, polymorphic sh

### 20 Business applications of unstructured text

 William L. Kuechler

October 2007 **Communications of the ACM**, Volume 50 Issue 10

**Publisher:** ACM 

Full text available:  Html (32.95 KB),  Pdf (143.02 KB) Additional Information: full citat

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 250, Citat

Crunching unstructured text rather than numbers is the basis for a new ranging from regulatory compliance monitoring to business intelligence.

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